IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Inventor: Cynthia B. ROBINSON, et al.

Serial Number: 10/698,071

Filing Date: October 29, 2003

Title: COMBINATION OF

DEHYDROEPIANDROSTERONE OR DEHYDROEPIANDROSTERONE-SULFATE WITH A TYROSINE KINASE, INHIBITOR, DELTA OPIOID RECEPTOR ANTAGONIST, NEUROKININ

RECEPTOR ANTAGONIST, OR VCAM INHIBITOR FOR TREATMENT OF ASTHMA OR CHRONIC OBSTRUCTIVE

PULMONARY DISEASE

Group Art Unit: 1617

Examiner: Umamaheswari Ramachandran

CONFIRMATION NO: 9181

FILED ELECTRONICALLY ON: July 12, 2007

Mail Stop Amendment Commissioner for Patents P.O. Box 1450 Alexandria VA 22313-1450

SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT UNDER 37 CFR §1.97

Sir:

Applicants hereby submit an Information Disclosure Statement along with attached form PTO/SB/08. A copy of each listed publication is submitted, if required, pursuant to 37 CFR §§1.97-1.98, as indicated below.

Applicants respectfully request that the listed information be considered by the Examiner and be made of record in the above-identified application. Applicants further request that the Examiner initial and return the attached form PTO/SB/08 in accordance with MPEP §609.

Applicants reserve the right to establish the patentability of the claimed invention over any of the information provided herewith, and/or to prove that this information may not be prior art, and/or to prove that this information may not be enabling for the teachings purportedly offered.

cited in the statement is, or is considered to be, prior art or material to patentability as defined in §1.56. A. \(\simega\) 37 CFR \(\sigma 1.97(b)\). This Information Disclosure Statement should be considered by the Office because: It is being filed within 3 months of the filing date of a national application and is (1) other than a continued prosecution application under §1.53(d); It is being filed within 3 months of entry of the national stage as set forth in П (2) §1.491 in an international application; -- OR --It is being filed before the mailing of a first Office action on the merits; \boxtimes (3) -- OR --It is being filed before the mailing of a first Office action after the filing of a \Box (4) request for continued examination under §1.114. B. \square 37 CFR §1.97(c). Although this Information Disclosure Statement is being filed after the period specified in 37 CFR $\S1.97(b)$, above, it is filed before the mailing date of the earlier of (1) a final office action under §1.113, (2) a notice of allowance under §1.311, or (3) an action that otherwise closes prosecution on the merits, this Information Disclosure Statement should be considered because it is accompanied by one of: a statement as specified in §1.97(e) provided concurrently herewith; -- OR -a fee of \$180.00 as set forth in \$1.17(p) authorized below, enclosed, or included with the payment of other papers filed together with this statement. C. \square 37 CFR §1.97(d). Although this Information Disclosure Statement is being filed after the mailing date of the earlier of (1) a final office action under §1.113 or (2) a notice of allowance under §1.311, it is being filed before payment of the issue fee and should be considered because it is accompanied by: i. a statement as specified in §1.97(e); -- AND -ii. a fee of \$180,00 as set forth in \$1.17(p) is authorized below, enclosed, or included with the payment of other papers filed together with this Statement. D. \square 37 CFR §1.97(e). Statement. A statement is provided herewith to satisfy the requirement under 37 CFR §§1.97(c); П -- AND/OR --A statement is provided herewith to satisfy the requirement under 37 CFR §§1.97(d); -- AND/OR --A copy of a dated communication from a foreign patent office clearly showing that the information disclosure statement is being submitted within 3 months of the filing date on the communication is provided in lieu of a statement under 37 C.F.R. § 1.97(e)(1) as provided for under MPEP 609.04(b) V.

This statement is not intended to represent that a search has been made or that the information

E.	disclosure application prior to the requirement	ent Under 37 C.F.R. §1.704(d). Each item of information contained in the information statement was first cited in a communication from a foreign patent office in a counterpart that was received by an individual designated in § 1.56(c) not more than thirty (30) days a filing of this information disclosure statement. This statement is made pursuant to the ats of 37 C.F.R. §1.704(d) to avoid reduction of the period of adjustment of the patent term ant(s) delay.
F.		$R \leq 1.98(a)(2)$. The content of the Information Disclosure Statement is as follows:
		Copies of each of the references listed on the attached Form PTO/SB/08 are enclosed herewith.
		OR
	\boxtimes	Copies of U.S. Patent Documents (issued patents and patent publications) listed on the attached Form PTO/SB/08 are NOT enclosed.
		AND/OR
	\boxtimes	Copies of Foreign Patent Documents and/or Non Patent Literature Documents listed on the attached Form PTO/SB/08 are enclosed in accordance with 37 CFR §1.98 (a)(2).
		AND/OR
	\boxtimes	Copies of pending unpublished U.S. patent applications are enclosed in accordance with 37 CFR §1.98(a)(2)(iii).
G.	37 CF. references.	$R \ \S 1.98(a)(3)$. The Information Disclosure Statement includes non-English patents and/or
		Pursuant to 37 CFR §1.98(a)(3)(i), a concise explanation of the relevance of each patent, publication or other information provided that is not in English is provided herewith.
		Pursuant to MPEP 609(B), an English language copy of a foreign search report is submitted herewith to satisfy the requirement for a concise explanation where non-English language information is cited in the search report.
		OR
		A concise explanation of the relevance of each patent, publication or other information provided that is not in English is as follows:
		Pursuant to 37 CFR §1.98(a)(3)(ii), a copy of a translation, or a portion thereof, of the non-English language reference(s) is provided herewith.
Н.		$R \ \S 1.98(d)$. Copies of patents, publications and pending U.S. patent applications, or other a specified in 37 C.F.R. $\S 1.98(a)$ are not provided herewith because:
		Pursuant to 37 CFR §1.98(d)(1) the information was previously submitted in an Information Disclosure Statement for another application under which this application claims priority for an earlier effective filing date under 35 U.S.C. 120.
		Application in which the information was submitted:
		Information Disclosure Statement(s) filed on:
		AND
		The information disclosure statement submitted in the earlier application complied with paragraphs (a) through (c) of 37 CFR §1.98.

I. \boxtimes Fee Authorization. The Commissioner is hereby authorized to charge the above-referenced fees of \$0.00 and charge any additional fees or credit any overpayment associated with this communication to Deposit Account No. 23-2415 (Docket No. 30775-719.201).

Respectfully submitted,

WILSON SONSINI GOODRICH & ROSATI

Dated: July 12, 2007

650 Page Mill Road Palo Alto, CA 94304-1050 (650) 493-9300 Customer No. 021971

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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Substitute for form 1449/PTO				Coi	nplete if Known
Substitute fo	or form 144	9/PTO		Application Number	10/698,071
INFORM	1ATION	DISC	LOSURE	Filing Date	October 29, 2003
	MENT BY			First Named Inventor	Cynthia B. Robinson
(Use as	s many sheet	ts as nec	essary)	Art Unit	1617
				Examiner Name	Umamaheswari Ramachandran
Sheet	1	Of	3	Attorney Docket Number	30775-719.201

		U.S. P	ATENT DOC	UMENTS	
Examiner Initials*	Cite No. ¹	Document Number Number-Kind Code ² (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
•	1.	US 2004/0067920	04/08/2004	Leonard et al.	
	2.	US 2004/0082522	04/29/2004	Hui	
	3.	US 2005/0026850 A1	02/03/2005	Robinson et al.	
	4.	US 4,501,729	02/26/1985	Boucher et al.	
	5.	US 4,956,355	09/11/1990	Prendergast	
	6.	US 5,527,789	06/18/1996	Nyce	
	7.	US 5,660,835	08/26/1997	Nyce	
	8.	US 5,859,000	01/12/1999	Dowell et al.	
	9.	US 6,087,351	07/11/2000	Nyce	
	10.	US 6,479,666	11/12/2002	Hull et al.	
	11.	US 6,635,629	10/21/2003	Raymond et al.	

	FOREIGN PATENT DOCUMENTS										
Examiner Initials*	Cite No.1	Foreign Patent Document Country Code ³ – Number ⁴ – Kind Code ⁵ (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶					
	12.	EP 429,187 B1	05/29/1991	Bourke et al.							
	13.	EP 934,745 A1	08/11/1999	Kennedy							
	14.	GB 2,240,472 A	08/07/1991	Masterson							
	15.	WO 1991/04030 A1	04/04/1991	Daynes et al.							
	16.	WO 1996/25935 A1	08/29/1996	Nyce							

Examiner	Date	
Signature	Considered	

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This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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			LICANT	First Named Inventor	Cynthia B. Robinson
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				Examiner Name	Umamaheswari Ramachandran
Sheet	2	Of	3	Attorney Docket Number	30775-719.201

		NON PATENT LITERATURE DOCUMENTS	
Examiner Initials*	Cite No.1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T
	17.	ABOU-GHARBIA, et al. Synthesis of dehydroepiandrosterone sulfatide and 16 alphahalogenated steroids. J Pharm Sci. 1981; 70(10): 1154-7.	
	18.	FOLKERS, et al. Lovastatin decreases coenzyme Q levels in humans. Proc Natl Acad Sci U.S.A. 1990; 87(22): 8931-4.	
	19.	GREENBERG, et al. Co-enzyme Q10: a new drug for cardiovascular disease. J Clin Pharm. 1990; 30(7): 596-608	
	20.	HARTIALA, et al. Testosterone metabolism in dog lung in vitro. Steroids Lipids Res. 1973; 4(1): 17-23.	
	21.	ISHIHARA, et al. Gas chromatographic determination of degradation products and stability of dehydroepiandrosterone sulfate in aqueous solution. Drug Dev Indust Pharm. 1979; 5(3): 263-75.	
	22.	MILEWICH, et al. Androstenedione metabolism in human lung fibroblasts. J Steroid Biochem. 1986; 24(4): 893-7.	
	23.	MILEWICH, et al. Metabolism of androsterone and 5 alpha-androstane-3 alpha, 17 beta-diol in human lung tissue and in pulmonary endothelial cells in culture. J Clin Endocrinol Metab. 1985; 60(2): 244-50.	
	24.	MILEWICH, et al. Metabolism of dehydroisoandrosterone and androstenedione by the human lung in vitro. J Steroid Biochem. 1977; 8(4): 277-84.	
	25.	MILEWICH, et al. Metabolism of dehydroisoandrosterone and androstenedione in human pulmonary endothelial cells in culture. J Clin Endocrinol Metab. 1983; 56(5): 930-5.	
	26.	MILEWICH, et al. Testosterone metabolism by human lung tissue. J Steroid Biochem. 1978; 9(1): 29-32.	

Examiner Date Signature Considered			
	Examiner	Date	
	Signature	Considered	

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Sheet	3	Of	3	Attorney Docket Number	30775-719.201

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Examiner Initials*	Cite No.1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T
	27.	MOHAN, et al. Dehydroepiandrosterone and related steroids inhibit mitochondrial respiration in vitro. Int J Biochem. 1989; 21(10): 1103-7.	
	28.	MORTENSEN, et al. Coenzyme Q10: Clinical benefits with biochemical correlates suggesting a scientific breakthrough in the management of chronic heart failure. Int J Tissue React. 1990; 12(3): 155-62.	
	29.	PONGRÁCZ, et al. Capillary gas chromatography of urinary steroids of terbutaline-treated asthmatic children. Chromatographia. 1998; 48(1-2): 163-5.	

		UNPUBLISHED PATENT APPLICATIONS	
Examiner Initials*	Cite No.1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ⁶
	30.	LEONARD, et al. US Patent Application No. 10/462,927, entitled "Dihydrate dehydroepiandrosterone and methods of treating asthma or chronic obstructive pulmonary disease using compositions thereof," filed June 17, 2003. (WSGR Reference No. 30775-722.201)	

Examiner	Date
Signature	Considered

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